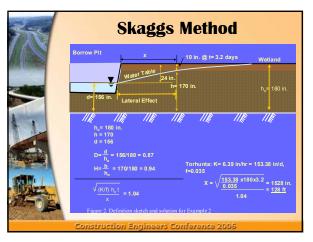




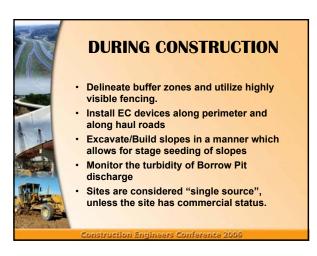
375	IDENTIFY SITES EARLY
	Sites must be approved prior to wasting or borrowing material
m-Hower	Ensure sites meet the Environmental Requirements Buffer zones
	•400' from wetlands and streams for Borrow Pits being excavated below the water table (unless
	Skaggs method shows less and is approved by ACOE)
	•25' undisturbed vegetated buffer for wetlands at Waste Sites
	•50' undisturbed vegetated buffer for streams at Waste Sites
AND INC.	•10' property line buffer for Waste and Borrow Sites
	Threatened and Endangered Species not present
	Construction Continues Confessors 2000





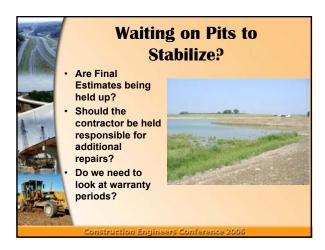


APPROVAL PROCESS Contractor to submit 10 copies of the completed package to the Lead Engineer Lead Engineer will review and solicit comments from the DEO and Roadside Environmental Field Ops Follow the Checklist - "NO's" should throw up a flag Lead Engineer will approve if all requirements of the Reclamation Plan are addressed



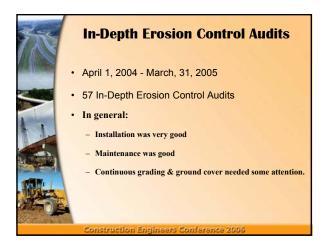


FINAL ACCEPTANCE Borrow and Waste Sites must meet all the requirements of the Reclamation Plan. Permanent stand of vegetation must cover the entire site. Property owner will be notified that the site is complete and that inspections and possible repair work may be required during the coming year. Site will be reviewed after 1 year and released if the site is deemed stable.









In-Depth Erosion Control Audits INSTALLATION ISSUES Devices Were Installed IAW Erosion Control Plans. Overall Installation Scores for Were Very Good. Continue to Use the Weekly Erosion Control Lists Ensure Devices Comply With the Sediment and Pollution Control Act Construction Engineers Conference 2006

In-Depth Erosion Control Audits INSTALLATION Continue to Consistently Use and Enforce the Erosion Control List on a Weekly Basis. Or After Each Major Rain Event and Initiate Corrective Measures As Needed.

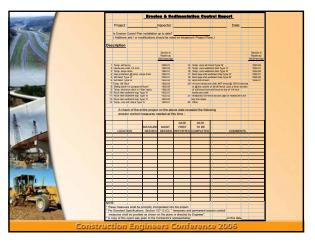


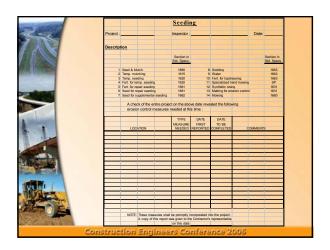
In-Depth Erosion Control Audits Do Not Change These Erosion Control Items Type A Silt Basin – (Roadside Environmental Unit Will Consult Hydraulics Unit.) Rip Rap Sediment Dams Temporary Sediment Trap – Located At Stream Crossings or Drainage Turnouts. Rock Silt Check Dam Trap – Located At Stream Crossings Or Drainage Turnouts. Culvert Construction Sequence – (Roadside Environmental Unit Will Consult Hydraulics Unit.) Channel Changes – Temporary or Permanent (Roadside Environmental Unit Will Consult Hydraulics Unit.)

In-Depth Erosion Control Audits The Master Set of Erosion Control Plans Must Remain on the Project at All Times Designate a Primary Person to Update and Maintain the Master Set. If This Person Is Away From the Project Designate a Location for These Plans to Be Stored. Construction Engineers Conference 2005

In-Depth Erosion Control Audits Common Problems Encountered Was Installation of Check Dams, Specifically the Weir Section. Weir Section Widths and Elevations Should Correspond to That Detailed in Section 1600 of the Roadway Standard Drawings. The Following Web Location Has Information Related the Proper Check Dam Installation.

In-Depth Erosion Control Audits Roadside Field Operations Engineers Are a Resource for Conducting Informal Training Erosion Control Field Guide: Excellent Training Tool for Visual Representation of Erosion Control Devices. Contact the Roadside Field Operations Engineer for Additional Copies of This Flip Chart Training Booklet.





Strategies for meeting 21 day requirement & establishing vegetative cover
Construction Engineers Conference 2005

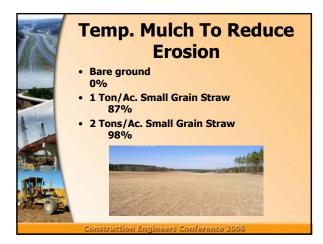
Follow grades shall p within specific Act. To perma Follow grades shall p within specific Act. To perma Follow grades shall p within specific Act. To perma Effect

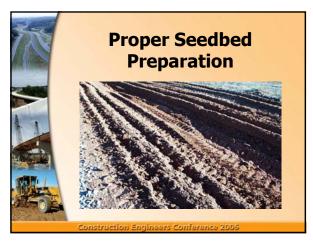
Standard Provision

Following completion of any phase or operation on any graded slope area greater than one acre, the contractor shall provide ground cover sufficient to restrain erosion within 21 calendar days or within a time period specified by the *Sedimentation and Pollution Control Act*. The ground cover shall be either temporary or permanent and the type specified in the contract. Following completion of any phase or operation on any graded slope area greater than one acre, the contractor shall provide ground cover sufficient to restrain erosion within 21 calendar days or within a time period specified by the *Sedimentation and Pollution Control Act*. The ground cover shall be either temporary or permanent and the type specified in the contract.

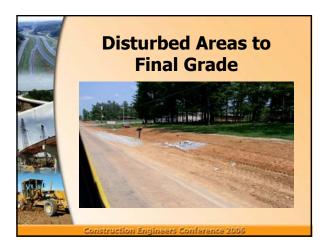
Effective October 1, 2005

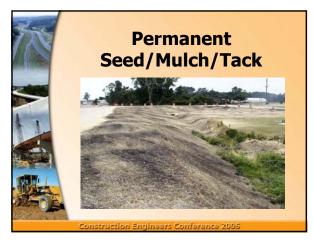
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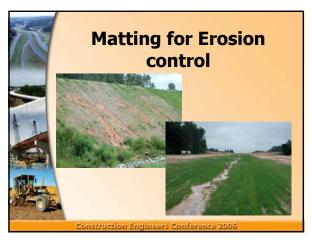
















Certification Program administered by NCSU, Department of Biological & Agricultural Engineering and includes: Classroom Instruction Examination Candidates may waive classroom instruction and attend examination only Construction Engineers Conference 2006



Certified Level II Site Managers will be required on any TIP project that requires an erosion control plan on projects let on/after January 1, 2006. Prime contractor will name at preconstruction conference. Certified Level I Inspectors / Installers will be required on any TIP project that requires an erosion control plan on projects let on/after January 1, 2007. Certified Designers- TBA Construction Engineers Conference 2006

Provisional Certifications • For a period of one year the NCDOT will honor: - Sister States' Certifications • Tennessee's Level II = NC's Level II • Virginia/South Carolina's Level II = NC's Level I • Registered Engineers are NOT exempt.

Revocation of Certification Certification may be revoked if the project receives: NOV- Notice of Violation (DENR) C&D- Cease & Desist Order (USACE) Continuing ICA- Continuing Immediate Corrective Action (REU) Contractor is responsible for supplying additional certified personnel should certification be revoked. Revoked certifications may be renewed by successfully passing the proper certification exam.

Re-certification Certifications are effective for 3 years. Re-certification may be obtained by attending the proper NCDOT / NCSU Re-certification course.

Summarizing

- The project must have a Level II certified site manager on site within 24 hours at all times.
- Grading Operation must have a Level II certified person on site.
- Culvert/Bridge Operation must have a Level II certified person on site.
- Utility Operation must have a Level II certified person on site.
- Seeding and Mulching Operation must have a Level I certified person on site.
- Erosion and Sedimentation Control Device installation must have a Level I certified person on site.
- Pipe installation within jurisdictional area must have a Level I certified person on site.
- •Level I and Level II training is independent

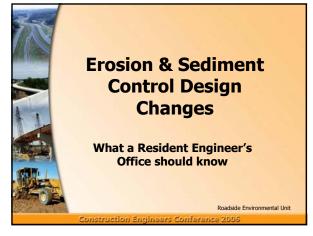
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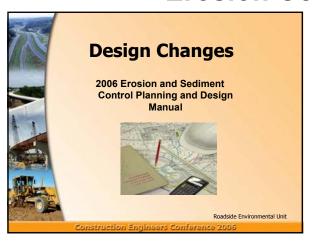
Ad

Additional Information

- For additional details, visit the Certification website at:
 - www.bae.ncsu.edu/workshops/dot/
- Ted Sherrod, PE Roadside Environmental Unit
 - **(919) 733-2920**
 - tsherrod@dot.state.nc.us

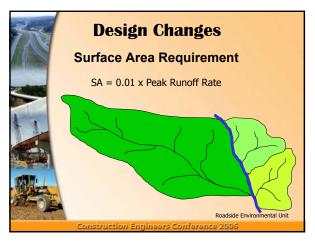
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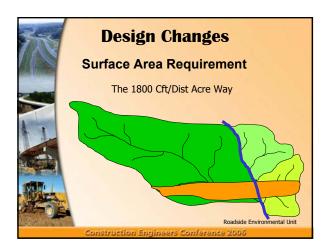


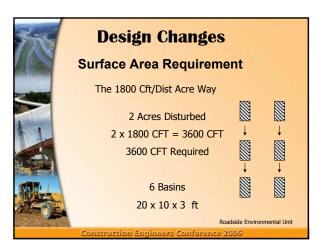


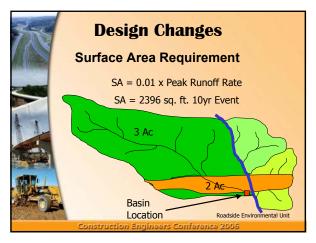


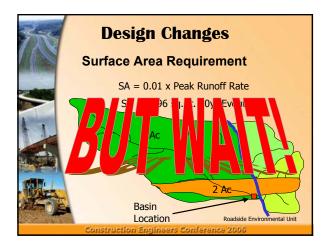


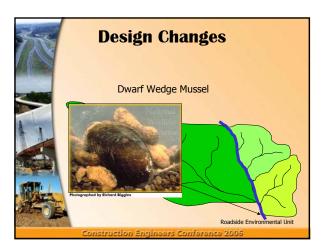


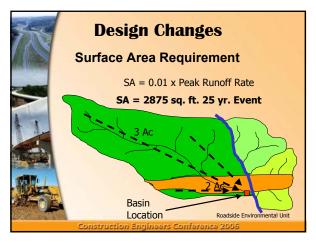




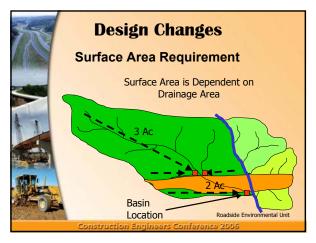


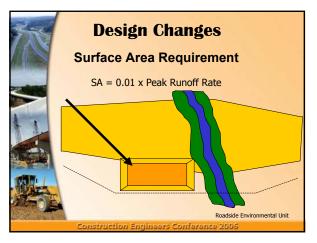


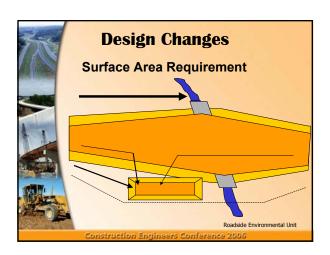


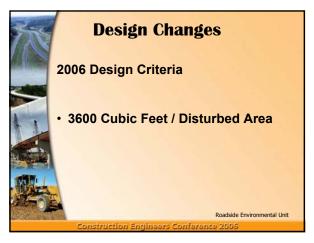


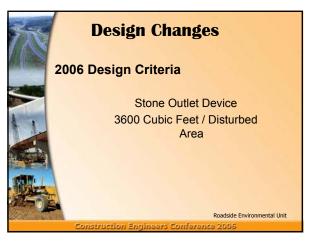




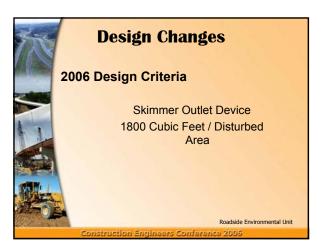




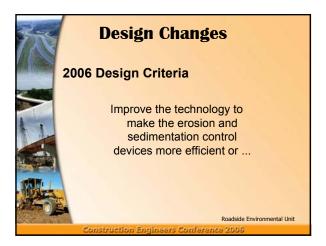




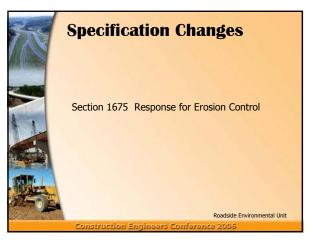


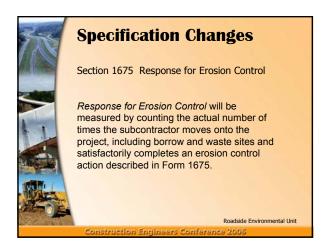


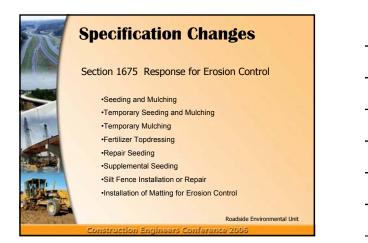


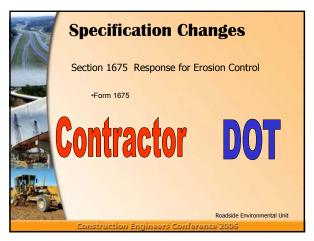






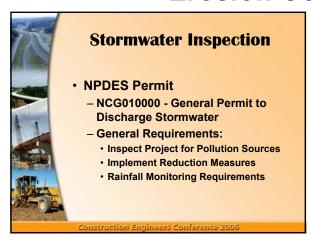


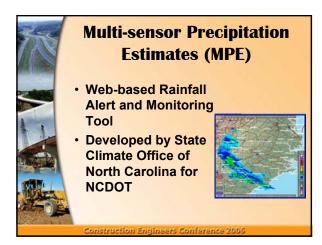


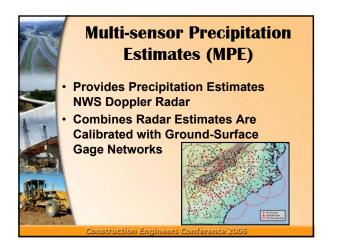




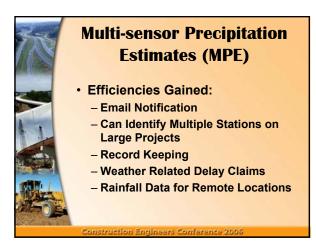


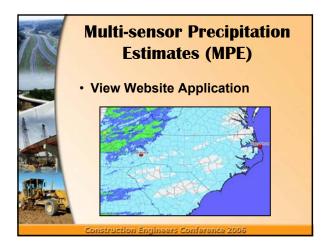


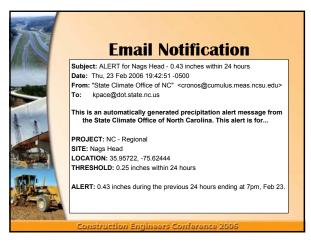




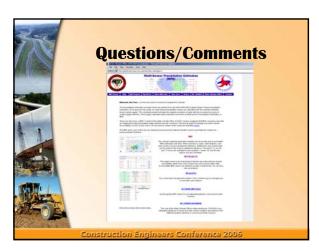
Multi-sensor Precipitation Estimates (MPE) • Error Rate - 0.023 Inches Over A 24 Hour Period • MPE Compares Well with Independent Daily Precipitation Gage Network Over NC • Most Accurate Local-Scale Hourly Precipitation Estimates Available













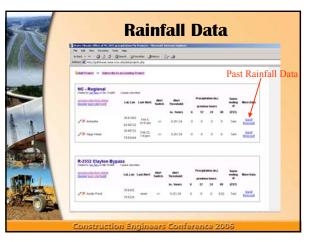














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